

WHAT IS CLAIMED IS

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1. An image pickup apparatus for picking up an image of a target object in divisions as a plurality of partial images which overlap by a predetermined quantity, comprising:

10 display means for displaying an image; and
partial image generating means for generating the
partial images to be displayed on said display means by
dividing a full image of the target image which is
picked up in advance into predetermined sizes using
15 information related to an overlap of the partial images.

20 2. An image pickup apparatus for picking up
an image of a target object in divisions as a plurality
of partial images which overlap by a predetermined
quantity, comprising:

25 a display unit displaying an image; and
a generating unit generating the partial images to

be displayed on said display unit by dividing a full image of the target image which is picked up in advance into predetermined sizes using information related to an overlap of the partial images.

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3. The image pickup apparatus as claimed in
10 claim 2, further comprising:

an overlap quantity specifying unit specifying the predetermined quantity of the overlap of the partial images.

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4. The image pickup apparatus as claimed in
claim 2, wherein said display unit simultaneously
20 displays a divided image and an image presently being
picked up in an overlapping manner.

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5. The image pickup apparatus as claimed in
claim 2, wherein said display unit simultaneously
displays a divided image and an image presently being
picked up at different positions.

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6. The image pickup apparatus as claimed in
10 claim 2, wherein said display unit time-divisionally
displays a divided image and an image presently being
picked up at the same position.

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7. The image pickup apparatus as claimed in
claim 2, further comprising:

20 a switch unit switching a display on the display
unit to one of a divided image and an image presently
being picked up.

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8. The image pickup apparatus as claimed in
claim 2, further comprising:

a partial image selecting unit selecting a divided
image.

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9. The image pickup apparatus as claimed in
10 claim 2, further comprising:

an interrupt unit interrupting image pickup of the
partial images and returning the image pickup apparatus
to a predetermined state.

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10. The image pickup apparatus as claimed in
claim 2, further comprising:

20 a generating unit generating a combined image by
combining the partial images.

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11. An image pickup apparatus for picking up an image of a target object in divisions as a plurality of partial images which overlap by a predetermined quantity, comprising:

- 5 field angle setting means for setting a field angle
with which the target object is to be picked up;
10 display means for displaying an image; and
15 partial image generating means for generating the
partial images to be displayed on said display means by
dividing a full image of the target image which is
picked up with a predetermined field angle set by said
field angle setting means into predetermined sizes using
the predetermined field angle and information related to
an overlap of the partial images after the predetermined
15 field angle is set by said field angle setting means.

20 12. An image pickup apparatus for picking up
an image of a target object in divisions as a plurality
of partial images which overlap by a predetermined
quantity, comprising:

- a field angle setting unit setting a field angle
25 with which the target object is to be picked up;

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a display unit displaying an image; and
a partial image generating unit generating the
partial images to be displayed on said display unit by
dividing a full image of the target image which is
5 picked up with a predetermined field angle set by said
field angle setting unit into predetermined sizes using
the predetermined field angle and information related to
an overlap of the partial images after the predetermined
field angle is set by said field angle setting unit.

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13. The image pickup apparatus as claimed in
15 claim 12, further comprising:

an overlap quantity specifying unit specifying the
predetermined quantity of the overlap of the partial
images.

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14. The image pickup apparatus as claimed in
claim 12, further comprising:

25 a setting unit automatically setting the field

angle with which the partial images are to be picked up to the predetermined field angle.

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15. The image pickup apparatus as claimed in claim 14, further comprising:

10 a resolution specifying unit specifying a resolution;

a measuring sensor measuring a distance to the target object; and

15 a calculating unit calculating the predetermined field angle from the resolution specified by said resolution specifying unit and the distance measured by said measuring sensor.

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16. The image pickup apparatus as claimed in claim 14, further comprising:

an object size specifying unit specifying a size of the target object;

25 a resolution setting unit specifying or storing a

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resolution; and

a calculating unit calculating the predetermined field angle from the size of the target object specified by the object size specifying unit and the resolution set by said resolution setting unit.

10 17. The image pickup apparatus as claimed in claim 14, further comprising:

a division number specifying unit specifying a number of divisions of a full image of the target object; and

15 a calculating unit calculating the predetermined field angle from the number of divisions specified by said division number specifying unit.

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18. The image pickup apparatus as claimed in claim 12, wherein said display unit simultaneously displays a divided image and an image presently being picked up in an overlapping manner.

19. The image pickup apparatus as claimed in
claim 12, wherein said display unit simultaneously
displays a divided image and an image presently being
picked up at different positions.

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10 20. The image pickup apparatus as claimed in
claim 12, wherein said display unit time-divisionally
displays a divided image and an image presently being
picked up at the same position.

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21. The image pickup apparatus as claimed in
claim 12, further comprising:

20 a switch unit switching a display on the display
unit to one of a divided image and an image presently
being picked up.

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22. The image pickup apparatus as claimed in
claim 12, further comprising:

a partial image selecting unit selecting a divided
image.

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23. The image pickup apparatus as claimed in
10 claim 12, further comprising:

an interrupt unit interrupting image pickup of the
partial images and returning the image pickup apparatus
to a predetermined state.

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24. The image pickup apparatus as claimed in
claim 12, further comprising:

20 a generating unit generating a combined image by
combining the partial images.

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25. An image processing method for processing an image of a target object which is picked up by an image pickup apparatus in divisions as a plurality of partial images which overlap by a predetermined quantity,
5 comprising the steps of:

- (a) displaying an image; and
- (b) generating the partial images to be displayed by said step (a) by dividing a full image of the target image which is picked up in advance into predetermined
10 sizes using information related to an overlap of the partial images.

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26. An image processing method for processing an image of a target object which is picked up by an image pickup apparatus in divisions as a plurality of partial images which overlap by a predetermined quantity,
20 comprising the steps of:

- (a) setting a field angle with which the target object is to be picked up;
- (b) displaying an image; and
- (c) generating the partial images to be displayed
25 by said step (b) by dividing a full image of the target

image which is picked up with a predetermined field angle set by said step (a) into predetermined sizes using the predetermined field angle and information related to an overlap of the partial images after the 5 predetermined field angle is set by said step (a).

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